

CLAIMS

1. An independent and integrated centralized high speed system for data management, comprising:

5 a self-contained communications network for transmitting data across the system;
one or more data acquisition devices operably connectable to the self-contained communications network for recording and transmitting data;
means for transmitting the data across the system; and
a private data processing center interconnectable with the one or more data acquisition
10 devices, and means for transmitting the data across the system, for managing the data.

2. An independent and integrated centralized high speed system for data management as provided in claim 1, wherein the system is equipped to transmit the data across the system at not less than 7 frames per second.

3. An independent and integrated centralized high speed system for data management as provided in claim 1, wherein the self-contained communications network includes at least one private network.

4. An independent and integrated centralized high speed system for data management as provided in claim 3, wherein the at least one private network is an internet protocol private network.

5. An independent and integrated centralized high speed system for data management as provided in claim 1, wherein the one or more data acquisition devices includes one or more data
25 stream processors.

6. An independent and integrated centralized high speed system for data management as provided in claim 1, wherein the transmitting means includes at least one or more switches.

7. An independent and integrated centralized high speed system for data management as provided in claim 1, wherein the one or more data acquisition devices includes one or more cameras.

8. An independent and integrated centralized high speed system for data management as provided in claim 1, wherein the one or more data acquisition devices is equipped to substantially simultaneously record and transmit the data.

9. An independent and integrated centralized high speed system for data management as provided in claim 1, wherein the one or more data acquisition devices is equipped to substantially simultaneously record audio information.

10. An independent and integrated centralized high speed system for data management as provided in claim 1, wherein the one or more data acquisition devices is equipped to compress the data.

11. An independent and integrated centralized high speed system for data management as provided in claim 10, wherein the one or more cameras is equipped to substantially simultaneously record visual information from more than one node on the system.

12. An independent and integrated centralized high speed system for data management as provided in claim 1, wherein the private data processing center includes at least one call manager.

13. An independent and integrated centralized high speed system for data management as provided in claim 1, wherein the private data processing center includes at least one router.

14. An independent and integrated centralized high speed system for data management as provided in claim 1, wherein the private data processing center includes one or more means for conducting data across the private network.

15. An independent and integrated centralized high speed system for data management as provided in claim 1, further comprising one or more voice transmission subsystems operably connectable to the independent communications network.

5 16. A self-contained method for managing data, comprising:
selecting one or more data acquisition devices;
connecting the one or more data acquisition devices to an independent high speed network;
including at least one central data management subsystem operably connectable to the one
or more data acquisition devices and to the independent high speed network for receiving and
10 processing a flow of data across the independent high speed network;
transmitting the data across the independent high speed network at no slower than seven
frames per second without broadband capability; and
processing the data to provide substantially real time information.

15 17. A self-contained method for managing data as recited in claim 16, wherein the one or more
data acquisition devices selecting step includes the substeps of:
installing one or more data stream processors for receiving, recording, and sending the data;
and
providing programmable software for transmitting and processing the data.

20 18. A self-contained method for managing data as recited in claim 16, wherein the one or more
data acquisition devices selecting step further includes the substeps of:
selecting at least one camera;
installing the at least one camera on the independent high speed network for providing audio
25 and visual data;
compressing audio and video data;
including means for recording more than one video data stream substantially simultaneously;
and
providing software to enable simultaneous recording and viewing of images.

19. A self-contained method for managing data as recited in claim 16, wherein the independent high speed network connecting step includes the substep of interconnecting the one or more data acquisition devices and the at least one central data management subsystem to at least one private network.

20. A self-contained method for managing data as recited in claim 16, wherein the independent high speed network connecting step includes the substep of interconnecting the one or more data acquisition devices and the at least one central data management subsystem to at least one internet protocol private network.

21. A self-contained method for managing data as recited in claim 19, further comprising the substep of disposing at least one telephony subsystem for voice transmission over the independent high speed network.

22. A self-contained method for managing data as recited in claim 21, wherein the at least one central data management subsystem including step includes the substeps of:

receiving the data from more than one source;

collecting the data in one or more machines capable of storing the data;

executing instructions on the data;

transmitting the data to other nodes on the independent high speed network; and

routing incoming data to a data repository;

23. A self-contained method for managing data as recited in claim 22, wherein the data processing step includes the substep of providing software to present the data in human useable format.

24. An apparatus for monitoring a remote site, comprising:

one or more private networks,

wherein the one or more private networks can transmit data at seven frames per second;

one or more data acquisition devices operably connectable to the one or more private networks;

at least one data processing center interconnectable with the one or more private networks and the one or more data acquisition devices;

5 means for transmitting the data across the system; and

an internet protocol telephony subsystem connectable to the one or more private networks.

25. An apparatus for monitoring a remote site as recited in claim 24, wherein the one or more private networks is capable of transmitting voice data packets across the system.

10 26. An apparatus for monitoring a remote site as recited in claim 24, wherein the one or more data acquisition devices includes software for substantially simultaneous recording and viewing of data related to images.

15 27. An apparatus for monitoring a remote site as recited in claim 26, wherein the one or more data acquisition devices is a camera operably connectable to the one or more private networks for receiving, recording, and sending surveillance data across the one or more private networks.

20 28. An apparatus for monitoring a remote site as recited in claim 27, wherein the one or more data acquisition devices includes means for processing the data across the one or more private networks.

29. An apparatus for monitoring a remote site as recited in claim 24, further comprising an Ethernet switch for transmitting ranges of frequencies.

25 30. An apparatus for monitoring a remote site as recited in claim 29, further comprising one or more routers.

31. A method for acquiring and processing surveillance information, comprising:
installing at least one independent data transmission system capable of high speed receipt and
delivery of data;
connecting at least one surveillance information acquisition device to the independent data
transmission system; and
including a plurality of devices interconnectable with the independent data transmission
system capable of:
(1) accumulating the surveillance information from the at least one surveillance data
acquisition device;
(2) transmitting the surveillance information to a central data management facility;
(3) routing the surveillance information to one or more subsystems for data storage;
(4) storing the surveillance information;
(5) updating the surveillance information;
(6) analyzing surveillance information;
(7) reporting the surveillance information on demand;
(8) providing telephonic communications across the at least one independent data
transmission system; and
(9) continually repeating steps (1) through (8).

32. A method for acquiring and processing surveillance information as recited in claim 31,
wherein the at least one independent data transmission system installing step includes the substep
of installing a system usable with at least private branch exchanges and the Internet.

33. A method for acquiring and processing surveillance information as recited in claim 31,
wherein the at least one surveillance data acquisition device connecting step includes the substeps
of:

installing one or more data stream processors capable of receiving, recording, and
transmitting the surveillance information across the at least one independent data transmission
system;

providing software for processing and transmitting the surveillance information across the at least one independent data transmission system;

compressing the surveillance information;

recording and transmitting more than one stream of surveillance information simultaneously;

and

recording and viewing the surveillance information substantially simultaneously.

34. A method for acquiring and processing surveillance information as recited in claim 31, further comprising one or more telephony devices connectable to the at least one independent data transmission system.

35. An integrated centralized high speed system for data management of remotely acquired digital data, comprising:

at least one high speed network for transmitting the digital data;

means connectable to the at least one high speed network for acquiring the digital data;

means operably connectable to the digital data acquiring means for transmitting the digital data across the system; and

means for processing the digital data to achieve data management.

36. An integrated centralized high speed system for data management of remotely acquired digital data as recited in claim 35, further comprising one or more subsystems for audio communication.

37. An integrated centralized high speed system for data management of remotely acquired digital data as recited in claim 35, wherein the digital data acquiring means includes at least one camera.

38. An integrated centralized high speed system for data management of remotely acquired digital data as recited in claim 35, wherein the at least one camera records audio and visual signals.

39. An integrated centralized high speed system for data management of remotely acquired digital data as recited in claim 38, wherein the at least one camera substantially simultaneously records and views an interrelated sequence of images.

40. An integrated centralized high speed system for data management of remotely acquired digital data as recited in claim 39, wherein the at least one camera compresses data.

41. An integrated centralized high speed system for data management of remotely acquired digital data as recited in claim 40, wherein the at least one camera records video data from more than one source substantially simultaneously.

42. An integrated centralized high speed system for data management of remotely acquired digital data as recited in claim 41, wherein the independent high speed system for conducting the digital data transmits voice and video data.

43. An integrated centralized high speed system for data management of remotely acquired digital data as recited in claim 42, wherein the receiving and processing means includes one or more cameras equipped to substantially simultaneously record and view the digital data.

44. An integrated centralized high speed system for data management of remotely acquired digital data as recited in claim 34, wherein the digital data acquiring means is at least one data stream processor.

45. An integrated centralized high speed system for data management of remotely acquired digital data as recited in claim 34, wherein the digital data receiving and processing means is a private data processing center.

46. An integrated centralized high speed system for data management of remotely acquired digital data as recited in claim 34, wherein the data management processing means includes at least

one switch.

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